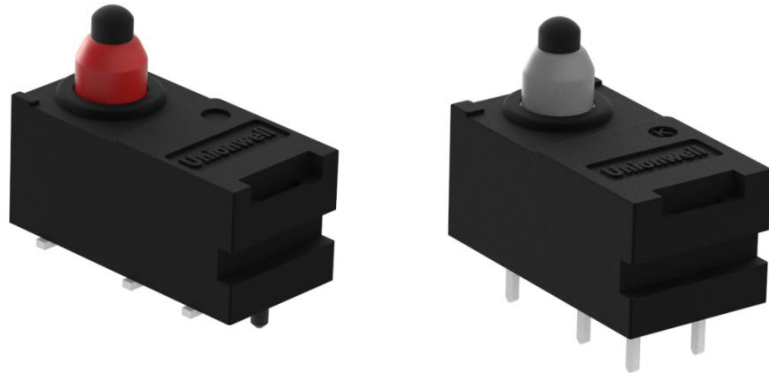


## G307A Dual Circuit Loop Momentary Micro Switches



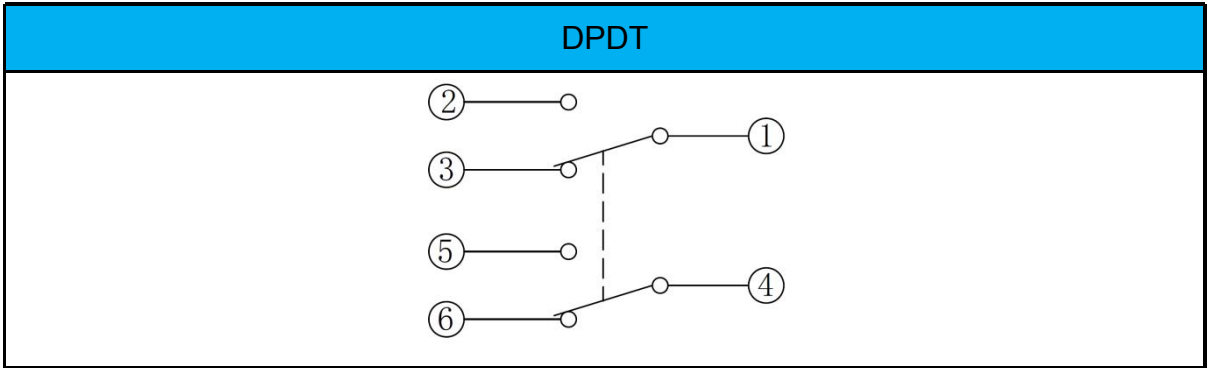
### ■ Features

- Small size, compact structure, high reliability, long life;
- Applied to micro-current load industries such as automotive industry and electronic equipment;
- Two welding processes options – DIP or SMT;
- High protection performance, protection level IP67
- Momentary structure, dual loop synchronization time  $\leq 15\text{ms}$ ;

### ■ Characteristic parameters

Rating	G307A	50mA 18VDC 50 $\mu$ A 5VDC
Operating Frequency	Electrical	15~20 Cycles/Min 1~100mm/s
	Mechanical	15~20 Cycles/Min
Initial Contact Resistance		75m $\Omega$ Max.
Insulation Resistance		100m $\Omega$ Min.
Dielectric Strength		Between terminals: AC100V Between terminal and housing: AC100V
Operating Temperature		-40°C ~+85°C
Service Life	Electrical	300,000 Cycles
	Mechanical	500,000 Cycles

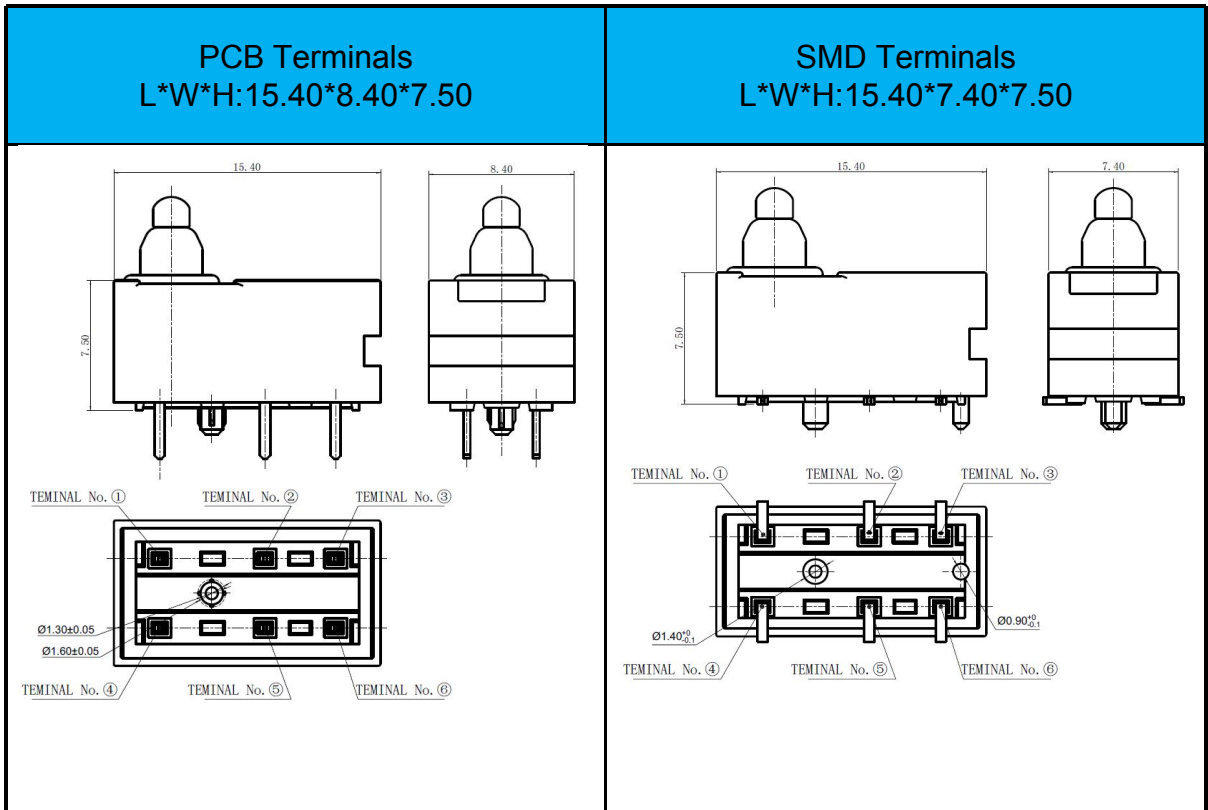
## ■ Circuit Configuration



## ■ Terminal Options

PCB Terminals (P)	PCB Mounting Hole Design
<p>Side view dimensions: 1.40, 2.65, 3.32, 2.33, 6.08±0.15, 4.08±0.15, 4.0±0.60, 2.80, 0.40, 4.00.</p> <p>Front view labels: TERMINAL No. ①, TERMINAL No. ②, TERMINAL No. ③, TERMINAL No. ④, TERMINAL No. ⑤, TERMINAL No. ⑥. Hole diameters: <math>\varnothing 1.30 \pm 0.05</math>, <math>\varnothing 1.60 \pm 0.05</math>.</p>	<p>Hole diameters: <math>\varnothing 1.50 \pm 0.15</math>, <math>6-\varnothing 2.25</math>, <math>6-\varnothing 1.00_{0}^{+0.1}</math> hole.</p> <p>Dimensions: 4.00, 3.04, 6.08, 4.08.</p>
SMT SMD Terminals (R)	PCB Mounting Hole Design
<p>Side view dimensions: 5.65, 8.30, 3.60, 8.00.</p> <p>Front view labels: TERMINAL No. ①, TERMINAL No. ②, TERMINAL No. ③, TERMINAL No. ④, TERMINAL No. ⑤, TERMINAL No. ⑥. Hole diameters: <math>\varnothing 1.40_{0}^{+0.1}</math>, <math>\varnothing 0.90_{0}^{+0.1}</math>.</p>	<p>Hole diameters: <math>\varnothing 1.10 \pm 0.05</math>, <math>\varnothing 1.60 \pm 0.05</math>.</p> <p>Dimensions: 6-1.40, 6.08, 4.08, 8.80, 2.60, 3.04, 8.30.</p>

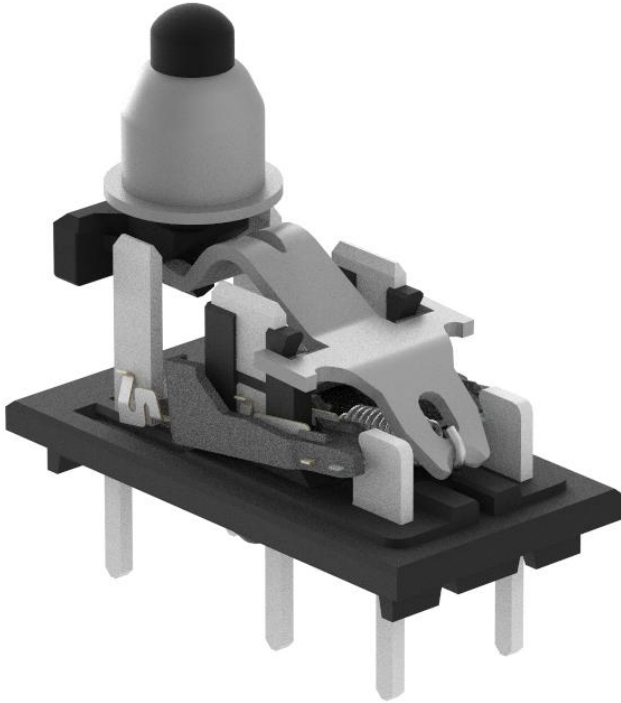
## ■ Shape and Dimensions



## ■ G307A Series Ordering Instruction

<b>G3</b>	<b>07A</b>	<b>150</b>	<b>P</b>	<b>00</b>	<b>A</b>	<b>A</b>	<b>u</b>
Switch Category	Rating	Operating Force (Max Value)	Terminals	Lever	Switch Dimensions	Circuitry	Logo
G3 Series Micro Switch	07 50mA 18VDC 50µA 5VDC	150 150gf Max ... other	P Straight left and right PCBterminal R SMD terminal ... other	00 Pin Plunger Only	A L*W*H 15.4*8.4*7.5 B L*W*H 15.4*7.4*7.5	A DPDT 1, 2,3 Clipping Contact B DPST-NC 1, 2 Clipping Contact C DPST-NO 1, 2 Clipping Contact	U Unionwell

## ■ Product Structure Innovation Design Description



### Description of structural features:

1. Double-loop independent switching circuit;
2. The sliding structure of double clips is adopted with reliable contact;
3. The double clip contact is molded into an integrated structure by using the plastic wrapping process to accomplish synchronous switching;
4. Momentary switching mechanism of the clip contact is accomplished through the spring strut carrier assembly, whose synchronous switching time is less than 15ms;
5. The gasket and housing adopt hot riveting process.

## ■ Operating Parameters

Terminals	Picture	Operating Parameters Table													
PCB Terminals	<p>Technical drawing of a component with PCB terminals. Dimensions are: 12.20±0.4, RP=11.70±0.40, OP=11.00±0.30, 9.60MAX, 7.50.</p>	<table border="1"> <thead> <tr> <th>OF Max. (gf)</th> <th>RF Min. (gf)</th> <th>TTP max. (mm)</th> <th>RP (mm)</th> <th>FP Max. (mm)</th> <th>OP (mm)</th> </tr> </thead> <tbody> <tr> <td>-150</td> <td>150</td> <td>30</td> <td>9.60</td> <td>11.7±0.4</td> <td>12.2+0.4/-0.16</td> <td>11.0±0.30</td> </tr> </tbody> </table>	OF Max. (gf)	RF Min. (gf)	TTP max. (mm)	RP (mm)	FP Max. (mm)	OP (mm)	-150	150	30	9.60	11.7±0.4	12.2+0.4/-0.16	11.0±0.30
OF Max. (gf)	RF Min. (gf)	TTP max. (mm)	RP (mm)	FP Max. (mm)	OP (mm)										
-150	150	30	9.60	11.7±0.4	12.2+0.4/-0.16	11.0±0.30									
SMD Terminals	<p>Technical drawing of a component with SMD terminals. Dimensions are: 12.20±0.4, RP=11.70±0.40, OP=11.00±0.30, 9.60MAX, 7.50.</p>	<table border="1"> <thead> <tr> <th>OF Max. (gf)</th> <th>RF Min. (gf)</th> <th>TTP max. (mm)</th> <th>RP (mm)</th> <th>FP Max. (mm)</th> <th>OP (mm)</th> </tr> </thead> <tbody> <tr> <td>-150</td> <td>150</td> <td>30</td> <td>9.60</td> <td>11.7±0.4</td> <td>12.2+0.4/-0.16</td> <td>11.0±0.30</td> </tr> </tbody> </table>	OF Max. (gf)	RF Min. (gf)	TTP max. (mm)	RP (mm)	FP Max. (mm)	OP (mm)	-150	150	30	9.60	11.7±0.4	12.2+0.4/-0.16	11.0±0.30
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-150	150	30	9.60	11.7±0.4	12.2+0.4/-0.16	11.0±0.30									

## ■ Applications

Widely used in various electronic equipment, automobile handbrake and other fields.



**G307A Series  
Momentary Clip  
Switch**

